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SNC-CH120

E-Series indoor fixed HD (720p) network security camera

The SNC-CH120 is a high definition (720p) fixed network security camera with true Day/Night, Intelligent Motion Detection, DEPA analysis and is ONVIF compliant. It supports dual streaming of H.264, MPEG-4 and JPEG at full frame-rate.

Sony's Exmor™ CMOS sensor provides excellent pictures and event detection for effective evidence gathering.

Sony's E-Series cameras have outstanding picture quality and a range of features at an affordable price.

1-year PrimeSupport is included as standard within the EU, Norway and Switzerland. This gives users access to an expert helpdesk and, in the unlikely event of a failure, will arrange for an advance replacement unit to be delivered within a target time of one working day. An additional 2-years support is also available as an option.

Features

HD (720p) resolution
Detailed 720p HD progressive images. Progressive acquisition (as opposed to interlace) means that images are more stable to view, contain more information and compress more efficiently - without "interlace artefacts".

Exmor™ CMOS Sensor
High resolution CMOS sensor with low noise characteristics for improved image acquisition. Derived from Sony's broadcast product range, Exmor™ is one of the highest quality image sensors available.

Triple Codec Network Operation
This multi-codec camera supports three compression formats: JPEG, the best choice of high-quality still images; MPEG-4, the format that provides clear moving images efficiently over limited-bandwidth networks; and H.264, the alternative for severely limited-bandwidth networks, providing twice the efficiency of MPEG-4. The camera can generate multiple streams simultaneously.

Intelligent Motion Detection
The built-in IMD function can trigger a variety of actions, such as the storage and transfer of images or the activation of an external device through its output relays. False alarms caused by noise and repeated motion patterns are minimized thanks to an advanced Sony algorithm. Plus, when used in conjunction with DEPA-enabled recorders or software, a multitude of filter functions are available. These allow you to initiate alarms based on more specific movements, such as passing a virtual borderline.

Stream Squared function
An incredibly useful function that allows simultaneous streaming of two 4:3 aspect ratio videos in user-selectable SD resolutions. You can select the entire image or a portion of the image from the original view and resize to SD resolution. With this feature, the SNC-CH120 can replace two SD cameras installed in the same line of view.

DEPA
The SNC-CH120 offers intelligent video analytics, based on the Sony DEPA platform. DEPA is a combined function of the intelligence built in to the camera and rules/filters that determine which images should be recorded or when an alarm should be triggered. Using the network camera Intelligent Motion Detection (IMD) function, 'tagged' objects and their associated metadata, including object position, are sent either to the NSR Series recorder or the IMZ-RS400 Series software. These products then use the metadata, together with filters, to analyze object movement and to perform a predefined action, such as image recording or alarm triggering. This method of distributed processing minimizes server workload, network bandwidth, and storage requirements.

Power Over Ethernet (PoE) capability

Supporting Power over Ethernet (PoE), the SNC-CH120 can be powered using the same Ethernet cable it uses for data transfer. This feature greatly reduces the physical infrastructure costs and speed of deployment.

ONVIF (Open Network Video Interface Forum) compliance

The ONVIF (Open Network Video Interface Forum) defines a common protocol for the exchange of information between network video devices including automatic device discovery and video streaming. Allows interoperability between network video devices.

Technical Specifications

Camera

Image device	1/3 type progressive scan "Exmor" CMOS sensor
Minimum illumination	Color: 0.50lx, BW: 0.30lx (F1.2/ AGC 42dB / 50IRE [IP])
Number of effective pixels (H x V)	1.4 Megapixel (1329 x 1049)
Electronic shutter speed	1s to 1/10000s
Gain control	Auto
Exposure control	Auto, EV Compensation, Auto Slow Shutter
White balance mode	Auto (ATW, ATW-PRO), Preset, One-push WB, Manual
Lens type	Vari-focal lens
Zoom ratio	Optical 2.9X
Horizontal viewing angle	96.5 to 33.9 degrees
Focal length	f=2.8 mm to 8 mm
F-number	F1.2 (Wide), F1.9 (Tele)
Minimum objects distance	300 mm
Powered Focus	Yes (Easy Focus)

Camera Features

Day/Night *1	Yes
Noise reduction	Yes

Image

Codec image size (H x V)	1280 x 1024, 1280 x 960, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 480, 768 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192 (H.264, MPEG-4, JPEG)
Video compression format	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming
Maximum frame rate	H.264: 20fps (1280 x 1024) / 30 fps (1280 x 720) MPEG-4: 25fps (1280 x 1024) / 30 fps (1280 x 720) JPEG: 30fps (1280 x 1024) / 30 fps (1280 x 720)

Scene Analytics

Intelligent motion detection	Yes

Network

Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client only), SMTP, DHCP, DNS,NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
ONVIF conformance	Yes
Number of clients	5
Authentication	IEEE802.1X

Analog Video Output

Signal system	NTSC / PAL

Interface

Ethernet	10BASE-T / 100BASE-TX (RJ-45)
Analog monitor output	Phono jack x 1 (1.0 Vp-p, 75 ohms, unbalanced, sync negative)
Sensor input	x 1, make contact, break contact
Alarm output	x 1, 24V AC/DC, 1A (mechanical relay outputs electrically isolated from the camera)

General

Mass	550 g (1 lb 3 oz) with lens
Dimensions	72 mm × 63 mm × 145 mm (2 7/8 inches × 2 1/2 inches × 5 3/4 inches) not including the projecting parts 72 mm × 63 mm × 197 mm (2 7/8 inches × 2 1/2 inches × 7 7/8 inches) with lens not including the projecting parts
Power requirements	PoE (IEEE802.3af compliant)
Power consumption	5.0 W max.
Starting temperature	0°C to 50°C (32°F to 122°F)
Working temperature	-10°C to +50°C (14°F to 122°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)

Safety regulation	UL2044, FCC 15B Class A, IC Class A, IEC60950-1, EN55022(A)+EN55024+EN50130-4, VCCI Class A, C-Tick Class A

System Requirements

Operating system	Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)
Processor	Intel Core2 Duo 2 GHz or higher
Memory	1 GB or more
Web browser	Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0
	Firefox Ver.3.5 (Plug-in free viewer only)
	Safari Ver.4.0 (Plug-in free viewer only)
	Google Chrome Ver.4.0 (Plug-in free viewer only)

Supplied Accessories

CD-ROM (Users Guides, and supplied programs) (1)	
Wire rope (1)	
Screw M4 (1	
Installation Manual (1)	
*1 Removable IR Cut Filter. * The SNC-CH120 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).	

Accessories

Warranty and Support Agreements

PrimeSupport Plus VS2

2 Year Extension for Video Security